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June 22, 2023

Ms. Becky Jolly
Iowa Department of Natural Resources
Land Quality Bureau
502 E. 9th Street
Des Moines, Iowa 50319

Dear Ms. Jolly:

Re: Fluff Quarterly Sampling Results
Alter Metal Recycling – Davenport, Iowa
2nd Quarter 2023

CJF Associates, LLC (CJF) is pleased to submit this report on behalf of Alter Corporation, Davenport, Iowa (Alter). This report presents the quarterly fluff sampling results as identified above.

Summary

- PCB concentration this quarter: 2.3 mg/kg;
- Ten-Sample Rolling PCB Average: 18.49 mg/kg;
- PCB TCLP result this quarter is non-detect; and
- All TCLP metal results are below regulatory criteria.

Based on the analytical results; the fluff may be landfilled in Iowa per IAC 567, Chapter 118.

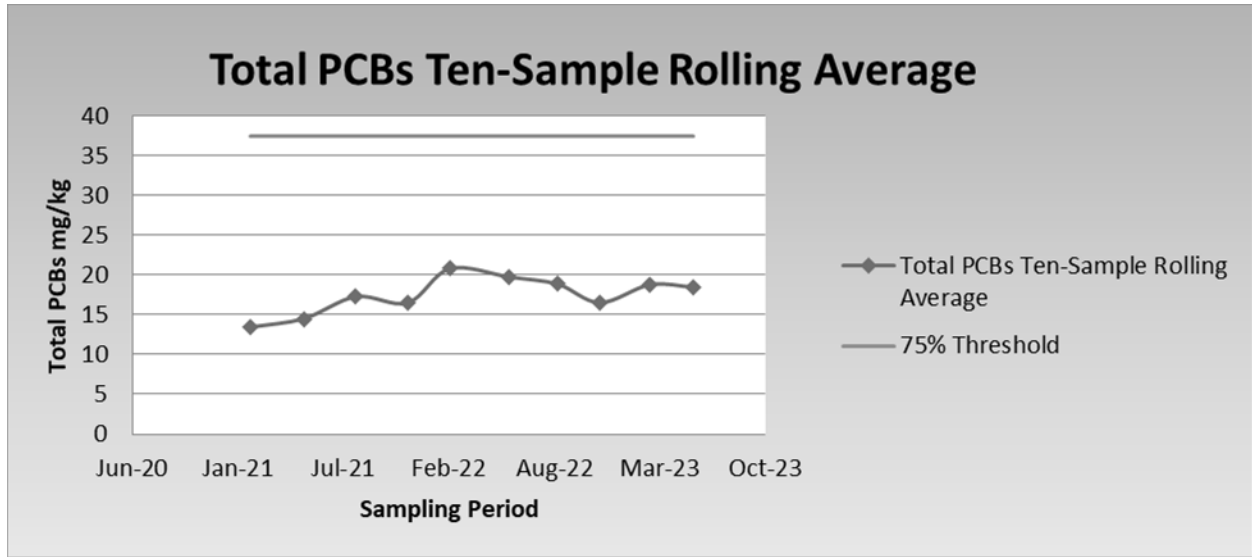
Details

In order to characterize the fluff, samples were collected and analyzed from the bulk seven-day composite sample. The composite sample was collected from April 6 through April 17, 2023 in accordance with IAC 567, Chapter 118. Samples were analyzed for total Polychlorinated Biphenyls (PCBs), Toxic Characteristic Leaching Procedure (TCLP) PCBs, and TCLP Resource Conservation and Recovery Act (RCRA) metals.

Total PCB results for the sampling period totaled 2.3 mg/kg. TCLP PCBs were not detected above the laboratory reporting limit. Barium, cadmium and lead were the only RCRA metal identified above the laboratory reporting limits but below regulatory TCLP concentrations. Lead was detected at a concentration of 0.028 mg/L which does not exceed the regulatory TCLP concentration of 5.0 mg/L. The present ten-sample rolling average for PCBs is 18.49 mg/kg. Rolling averages of the ten-sampling period results for total PCBs are presented below:



June 22, 2023



Second quarter analytical results are summarized as follows:

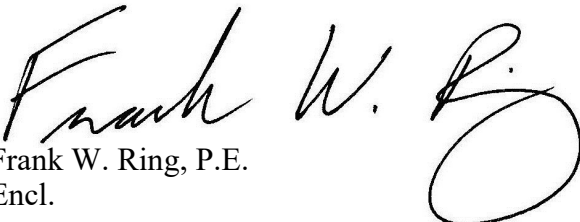
Sample ID	Analyte										Ignitability ²
	Total PCBs ¹	TCLP PCBs	TCLP Arsenic	TCLP Barium	TCLP Cad	TCLP Chrom	TCLP Lead	TCLP Sel	TCLP Silver	TCLP Mercury	
ZDSF-051723-003	2.3	ND	ND	1.0	0.10	ND	0.028	ND	ND	ND	NA

Notes: All TCLP results are reported in mg/L ND = Not Detected above Laboratory Detection Limits
 (1) Results reported in mg/kg NA = Not Analyzed
 (2) Results reported in degrees Fahrenheit

Laboratory analytical results and chain of custody forms are presented in Attachment A.

If you have any questions, please contact Frank W. Ring at (313) 999-4071.

Sincerely,
CJF Associates, LLC


 Frank W. Ring, P.E.
 Encl.

CC: Patrick Kohlmeier, Alter
 Brian Seals, Waste Commission of Scott County
 Casey Reitz, Waste Commission of Scott County

ATTACHMENT A

LABORATORY ANALYTICAL RESULTS

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Charles Ring
CJF Associates, LLC
PO BOX 80815
St. Claire Shores, Michigan 48080
Generated 6/5/2023 5:48:34 AM

JOB DESCRIPTION

Alter Metals, Davenport, 1217

JOB NUMBER

240-185584-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Job ID: 240-185584-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185584-1

Comments

No additional comments.

Receipt

The samples were received on 5/18/2023 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

GC Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 1311: The sample was tumbled in plastic due to matrix: ZDSF-051723-003 (240-185584-1)

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-388407 and 310-388506. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.



Method Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
PCB	Total PCB Calculation	TAL SOP	EET CF
6010D	Metals (ICP)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
D92	Flashpoint	ASTM	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
3010A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
3550B	Ultrasonic Extraction	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Sample Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185584-1	ZDSF-051723-003	Solid	05/17/23 13:00	05/18/23 09:45

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Detection Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Client Sample ID: ZDSF-051723-003

Lab Sample ID: 240-185584-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1242	2.3		0.70	0.075	mg/Kg	10	✱	8082A	Total/NA
Total PCBs	2.3		0.70	0.075	mg/Kg	1		PCB	Total/NA
Barium	1.0		0.20	0.040	mg/L	1		6010D	TCLP
Cadmium	0.10		0.020	0.0039	mg/L	1		6010D	TCLP
Lead	0.028	J	0.10	0.026	mg/L	1		6010D	TCLP
Flashpoint	>200		65.0	65.0	Degrees F	1		D92	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Client Sample ID: ZDSF-051723-003

Lab Sample ID: 240-185584-1

Date Collected: 05/17/23 13:00

Matrix: Solid

Date Received: 05/18/23 09:45

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1221	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1232	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1242	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1248	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1254	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1260	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:51	1
PCB-1268	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:51	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	51		11 - 122				05/24/23 09:42	05/25/23 19:51	1
Tetrachloro-m-xylene	75		23 - 123				05/24/23 09:42	05/25/23 19:51	1

Method: TAL SOP PCB - Total PCB Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total PCBs	2.3		0.70	0.075	mg/Kg			06/02/23 13:21	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.10	0.030	mg/L		05/24/23 10:10	05/25/23 18:35	1
Barium	1.0		0.20	0.040	mg/L		05/24/23 10:10	05/25/23 18:35	1
Cadmium	0.10		0.020	0.0039	mg/L		05/24/23 10:10	05/25/23 18:35	1
Chromium	ND		0.020	0.0060	mg/L		05/24/23 10:10	05/25/23 18:35	1
Lead	0.028	J	0.10	0.026	mg/L		05/24/23 10:10	05/25/23 18:35	1
Selenium	ND		0.10	0.029	mg/L		05/24/23 10:10	05/25/23 18:35	1
Silver	ND		0.050	0.014	mg/L		05/24/23 10:10	05/25/23 18:35	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		05/24/23 12:31	05/25/23 14:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint (ASTM D92)	>200		65.0	65.0	Degrees F			05/23/23 16:01	1
Percent Moisture (EPA Moisture)	6.0		0.1	0.1	%			05/22/23 06:21	1
Percent Solids (EPA Moisture)	94.0		0.1	0.1	%			05/22/23 06:21	1

Client Sample Results

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Client Sample ID: ZDSF-051723-003

Lab Sample ID: 240-185584-1

Date Collected: 05/17/23 13:00

Matrix: Solid

Date Received: 05/18/23 09:45

Percent Solids: 94.0

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.070	0.0018	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1221	ND		0.070	0.019	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1232	ND		0.070	0.0070	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1242	2.3		0.70	0.075	mg/Kg	☼	05/23/23 13:11	06/02/23 10:58	10
PCB-1248	ND		0.070	0.0047	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1254	ND		0.070	0.0045	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1260	ND		0.070	0.0024	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
PCB-1268	ND		0.070	0.00098	mg/Kg	☼	05/23/23 13:11	06/01/23 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>DCB Decachlorobiphenyl (Surr)</i>	52		10 - 149				05/23/23 13:11	06/01/23 14:08	1
<i>Tetrachloro-m-xylene</i>	74		10 - 147				05/23/23 13:11	06/01/23 14:08	1

Surrogate Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (10-149)	TCX1 (10-147)
240-185584-1	ZDSF-051723-003	52	74
LCS 310-388263/2-A	Lab Control Sample	111	107
LCSD 310-388263/3-A	Lab Control Sample Dup	101	96
MB 310-388263/1-A	Method Blank	102	91

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (11-122)	TCX1 (23-123)
LCS 310-388506/2-A	Lab Control Sample	58	69
LCSD 310-388506/3-A	Lab Control Sample Dup	47	68

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (11-122)	TCX1 (23-123)
240-185584-1	ZDSF-051723-003	51	75
LB 310-388407/1-C	Method Blank	61	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-388263/1-A
Matrix: Solid
Analysis Batch: 389248

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 388263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.025	0.00065	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1221	ND		0.025	0.0066	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1232	ND		0.025	0.0025	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1242	ND		0.025	0.0027	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1248	ND		0.025	0.0017	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1254	ND		0.025	0.0016	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1260	ND		0.025	0.00084	mg/Kg		05/23/23 13:11	06/01/23 13:05	1
PCB-1268	ND		0.025	0.00035	mg/Kg		05/23/23 13:11	06/01/23 13:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	102		10 - 149	05/23/23 13:11	06/01/23 13:05	1
Tetrachloro-m-xylene	91		10 - 147	05/23/23 13:11	06/01/23 13:05	1

Lab Sample ID: LCS 310-388263/2-A
Matrix: Solid
Analysis Batch: 389248

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.194	0.205		mg/Kg		106	33 - 129
PCB-1260	0.194	0.214		mg/Kg		110	39 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	111		10 - 149
Tetrachloro-m-xylene	107		10 - 147

Lab Sample ID: LCSD 310-388263/3-A
Matrix: Solid
Analysis Batch: 389248

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 388263

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	0.196	0.168		mg/Kg		86	33 - 129	20	39
PCB-1260	0.196	0.177		mg/Kg		91	39 - 133	19	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	101		10 - 149
Tetrachloro-m-xylene	96		10 - 147

Lab Sample ID: LCS 310-388506/2-A
Matrix: Solid
Analysis Batch: 388711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	12.5	10.9		ug/L		87	30 - 133
PCB-1260	12.5	9.23		ug/L		74	31 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	58		11 - 122

Eurofins Cleveland

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 310-388506/2-A
Matrix: Solid
Analysis Batch: 388711

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 388506

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	69		23 - 123

Lab Sample ID: LCSD 310-388506/3-A
Matrix: Solid
Analysis Batch: 388711

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 388506

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	12.5	10.4		ug/L		83	30 - 133	4	35
PCB-1260	12.5	9.08		ug/L		73	31 - 133	2	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	47		11 - 122
Tetrachloro-m-xylene	68		23 - 123

Lab Sample ID: LB 310-388407/1-C
Matrix: Solid
Analysis Batch: 388711

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 388506

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1221	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1232	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1242	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1248	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1254	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1260	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:13	1
PCB-1268	ND		4.0	1.1	ug/L		05/24/23 09:42	05/25/23 19:13	1
Polychlorinated biphenyls, Total	ND		4.0	1.3	ug/L		05/24/23 09:42	05/25/23 19:13	1

Surrogate	LB LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	61		11 - 122	05/24/23 09:42	05/25/23 19:13	1
Tetrachloro-m-xylene	69		23 - 123	05/24/23 09:42	05/25/23 19:13	1

Method: 6010D - Metals (ICP)

Lab Sample ID: LB 310-388405/1-B
Matrix: Solid
Analysis Batch: 388778

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 388502

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	ND		0.10	0.030	mg/L		05/24/23 10:10	05/25/23 18:31	1
Barium	ND		0.20	0.040	mg/L		05/24/23 10:10	05/25/23 18:31	1
Cadmium	ND		0.020	0.0039	mg/L		05/24/23 10:10	05/25/23 18:31	1
Chromium	ND		0.020	0.0060	mg/L		05/24/23 10:10	05/25/23 18:31	1
Lead	ND		0.10	0.026	mg/L		05/24/23 10:10	05/25/23 18:31	1
Selenium	ND		0.10	0.029	mg/L		05/24/23 10:10	05/25/23 18:31	1
Silver	ND		0.050	0.014	mg/L		05/24/23 10:10	05/25/23 18:31	1

Eurofins Cleveland

QC Sample Results

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 310-388405/2-B
Matrix: Solid
Analysis Batch: 388778

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 388502

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.00	4.29		mg/L		107	80 - 120
Barium	2.00	2.12		mg/L		106	80 - 120
Cadmium	2.00	2.02		mg/L		101	80 - 120
Chromium	2.00	2.11		mg/L		106	80 - 120
Lead	4.00	3.96		mg/L		99	80 - 120
Selenium	8.00	8.58		mg/L		107	80 - 120
Silver	2.00	2.05		mg/L		102	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 310-388405/1-C
Matrix: Solid
Analysis Batch: 388712

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 388551

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0020	0.0015	mg/L		05/24/23 12:31	05/25/23 14:27	1

Lab Sample ID: LCS 310-388405/2-C
Matrix: Solid
Analysis Batch: 388712

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 388551

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.0167	0.0166		mg/L		100	80 - 120

Lab Sample ID: 240-185584-1 MS
Matrix: Solid
Analysis Batch: 388712

Client Sample ID: ZDSF-051723-003
Prep Type: TCLP
Prep Batch: 388551

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.0167	0.0157		mg/L		94	80 - 120

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

GC Semi VOA

Prep Batch: 388263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	3550B	
MB 310-388263/1-A	Method Blank	Total/NA	Solid	3550B	
LCS 310-388263/2-A	Lab Control Sample	Total/NA	Solid	3550B	
LCSD 310-388263/3-A	Lab Control Sample Dup	Total/NA	Solid	3550B	

Leach Batch: 388407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	1311	
LB 310-388407/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 388506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	3510C	388407
LB 310-388407/1-C	Method Blank	TCLP	Solid	3510C	388407
LCS 310-388506/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 310-388506/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 388711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	8082A	388506
LB 310-388407/1-C	Method Blank	TCLP	Solid	8082A	388506
LCS 310-388506/2-A	Lab Control Sample	Total/NA	Solid	8082A	388506
LCSD 310-388506/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	388506

Analysis Batch: 389248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	8082A	388263
MB 310-388263/1-A	Method Blank	Total/NA	Solid	8082A	388263
LCS 310-388263/2-A	Lab Control Sample	Total/NA	Solid	8082A	388263
LCSD 310-388263/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	388263

Analysis Batch: 389426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	8082A	388263

Analysis Batch: 389483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	PCB	

Metals

Leach Batch: 388405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	1311	
LB 310-388405/1-B	Method Blank	TCLP	Solid	1311	
LB 310-388405/1-C	Method Blank	TCLP	Solid	1311	
LCS 310-388405/2-B	Lab Control Sample	TCLP	Solid	1311	
LCS 310-388405/2-C	Lab Control Sample	TCLP	Solid	1311	
240-185584-1 MS	ZDSF-051723-003	TCLP	Solid	1311	

Eurofins Cleveland

QC Association Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Metals

Prep Batch: 388502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	3010A	388405
LB 310-388405/1-B	Method Blank	TCLP	Solid	3010A	388405
LCS 310-388405/2-B	Lab Control Sample	TCLP	Solid	3010A	388405

Prep Batch: 388551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	7470A	388405
LB 310-388405/1-C	Method Blank	TCLP	Solid	7470A	388405
LCS 310-388405/2-C	Lab Control Sample	TCLP	Solid	7470A	388405
240-185584-1 MS	ZDSF-051723-003	TCLP	Solid	7470A	388405

Analysis Batch: 388712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	7470A	388551
LB 310-388405/1-C	Method Blank	TCLP	Solid	7470A	388551
LCS 310-388405/2-C	Lab Control Sample	TCLP	Solid	7470A	388551
240-185584-1 MS	ZDSF-051723-003	TCLP	Solid	7470A	388551

Analysis Batch: 388778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	TCLP	Solid	6010D	388502
LB 310-388405/1-B	Method Blank	TCLP	Solid	6010D	388502
LCS 310-388405/2-B	Lab Control Sample	TCLP	Solid	6010D	388502

General Chemistry

Analysis Batch: 388163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	Moisture	

Analysis Batch: 388432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185584-1	ZDSF-051723-003	Total/NA	Solid	D92	

Lab Chronicle

Client: CJF Associates, LLC
 Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Client Sample ID: ZDSF-051723-003

Lab Sample ID: 240-185584-1

Date Collected: 05/17/23 13:00

Matrix: Solid

Date Received: 05/18/23 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			388407	FK4Z	EET CF	05/23/23 14:00 - 05/24/23 06:00 ¹
TCLP	Prep	3510C			388506	Y6AF	EET CF	05/24/23 09:42
TCLP	Analysis	8082A		1	388711	BW2O	EET CF	05/25/23 19:51
Total/NA	Analysis	PCB		1	389483	D2YP	EET CF	06/02/23 13:21
TCLP	Leach	1311			388405	FK4Z	EET CF	05/23/23 14:00 - 05/24/23 06:00 ¹
TCLP	Prep	3010A			388502	KCK5	EET CF	05/24/23 10:10
TCLP	Analysis	6010D		1	388778	DHM5	EET CF	05/25/23 18:35
TCLP	Leach	1311			388405	FK4Z	EET CF	05/23/23 14:00 - 05/24/23 06:00 ¹
TCLP	Prep	7470A			388551	XXW3	EET CF	05/24/23 12:31
TCLP	Analysis	7470A		1	388712	XXW3	EET CF	05/25/23 14:31
Total/NA	Analysis	D92		1	388432	WZC8	EET CF	05/23/23 16:01
Total/NA	Analysis	Moisture		1	388163	DGU1	EET CF	05/22/23 06:21

Client Sample ID: ZDSF-051723-003

Lab Sample ID: 240-185584-1

Date Collected: 05/17/23 13:00

Matrix: Solid

Date Received: 05/18/23 09:45

Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550B			388263	GW4G	EET CF	05/23/23 13:11
Total/NA	Analysis	8082A		10	389426	BW2O	EET CF	06/02/23 10:58
Total/NA	Prep	3550B			388263	GW4G	EET CF	05/23/23 13:11
Total/NA	Analysis	8082A		1	389248	BW2O	EET CF	06/01/23 14:08

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: CJF Associates, LLC
Project/Site: Alter Metals, Davenport, 1217

Job ID: 240-185584-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Solid	PCB-1268
8082A	3510C	Solid	Polychlorinated biphenyls, Total
8082A	3550B	Solid	PCB-1268
D92		Solid	Flashpoint
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids
PCB		Solid	Total PCBs

Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login # : 185584

Client CJF ASSOCIATES Site Name _____
Cooler Received on 5-18-23 Opened on 5-18-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Cooler unpacked by:
Manohly

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # ee7nc Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # 13 (CF +2 °C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 1.7 °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
- Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC208070
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: CJF Associates, LLC

Job Number: 240-185584-1

Login Number: 185584

List Number: 2

Creator: Tucker, Sarah L

List Source: Eurofins Cedar Falls

List Creation: 05/20/23 11:39 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	